MAR 2 4 2005



# Molecular Imprints, Inc.

Legal Department P.O. Box 81536 Austin, Texas 78708-1536 Telephone: (512) 339-7760 Facsimile: (512) 491-8918 kbrooks@militho.com

### FACSIMILE TRANSMITTAL SHEET

FROM: Kenneth C. Brooks To: Examiner (unassigned) Reg. No. 38,393 Group Art Unit 1762 DATE: COMPANY: United States Patent and Trademark Office March 24, 2005 TOTAL NO. OF PAGES INCLUDING COVER: **FAX NUMBER:** 10 703-872-9306

RE:

Information Disclosure Statement U.S. Patent Application No. 10/776,881

Filing Date:

02/11/2004 Entitled:

APPARATUS FOR FABRICATING NANOSCALE PATTERNS IN LIGHT CURABLE

COMPOSITIONS USING AN ELECTRIC FIELD

Our Ref. No.: PA84-26D27

Please see attached:

Information Disclosure Statement (2 pg(s)) with Form PTO/SB/08A (7 pg(s))

KCB:kep

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## MAR 2 4 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:

Willson, Carlton Grant

App. No.:

10/776,881

GPAU:

1762

Filing Date: February 11, 2004 Examiner:

(unassigned)

Dkt. No.:

PA84-26D27

Conf. No.: 3386

For: APPARATUS FOR FABRICATING NANOSCALE PATTERNS IN LIGHT

CURABLE COMPOSITIONS USING AN ELECTRIC FIELD

### INFORMATION DISCLOSURE STATEMENT

Mail Stop AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Other:

#### Sir:

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The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

$\boxtimes$	Form(s)	PTO/SB/08A	and/or	PTO/SB/	08B	or	PTO/14	49

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be

expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

For the convenience of the Examiner, the references that

were cited in the parent patent application are noted in bold.

This Information Disclosure Statement is being filed:

before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

Applicants do not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Scrvice with sufficient postage as either First ClassMail or Express Mail, in an envelope addressed to the Commissioner for Fatents.

Katrina Prati

Date.

3-24-05

Respectfully Submitted,

Kenneth C. Brooks,

Reg. No. 38,393 Legal Department

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Austin, TX 78758-1536

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Substitute fo	or form 1449/	VPTO		Comple	te if Known
				APPLICATION NUMBER	10/776,881
	DRMATIO			FILING DATE	02/11/2004
STA	TEMENT	BY APPL	ICAN I	FIRST NAMED INVENTOR	Willson et al.
fu	se as many she	ets as necessa	or)	Group Art Unit	1762
		of	7	Examiner Name	Unassigned
SHEEL	<u> </u>		<u></u>	Attorney Docket Number	PA84-26D27

		U.S. Palent Do	ocument		Date of Publication of	Pagies, Columns, Lines.	
Examiner Intials*	Cite No.1	Number (# known)		Name of Patenter or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	
	C1	4,731,155	T	Napoli et al.	3/15/1988		
	C2	5,425,848	_	Halsma et al.	6/20/1995		
······································	C3	5,772,905		Chou	6/30/1998		
	C4	6,309,580	B1	Chou	10/30/2001		
	C5	6,334,960	B1	Willson et al.	1/1/2002		
~	C6	6,517,977	B2	Resnick et al.	2/11/2003		
	<b>C</b> 7	6,696,220	82	Bailey et al.	2/24/2004		
·	C8	2004/0007799	A1	Choi et al.	1/15/2004		
	C9	2004/0021254	A1	Sreenivasan et al.	2/5/2004	*	
	C10	2004/0021866	A1	Watts et al.	2/5/2004		
	C11	2004/0022888	A1	Sreenivasan et al.	2/5/2004		
	C12	2002/0177319	A1	Chou	11/28/2002	•	
	C13	2003/0215577	A1	Willson et al.	11/20/2003		
	C14	2004/0008334	A1	Sreenivasan et al.	1/15/2004		
	C15	2004/0009673	A1	Sreenivasan et al.	1/15/2004		
	C18	2004/0124566	A1	Sreenivasan et al.	7/1/2004		
	C17	6,646,662	B1	Nebashi et al.	11/11/2003		
	C18	6,778,094	Bi	Whitesides et al.	8/17/2004		

Examiner	Date
Signature	Considered
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Substitute fo	or form 1449/	A/PTO		Complete if Known		
		N DIGGL	20125	APPLICATION NUMBER	10/776,881	
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Sheet			Examiner Name	Unassigned		
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				U.S. PATENT DOCUMEN	TS	
Examiner Initials*	Cile No.1	U.S. Palent Do	Kind Code <sup>2</sup> (# known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-OD-YYYY	Pages, Columns, Unes, Where Refevant Passages or Relevant Figures Appear
	C19	6,518,189	B1	Chou	2/11/2003	
	C20	2002/0132482	A1	Chou	9/19/2002	
	C21	2002/0167117	A1	Chou	11/14/2002	
	C22	6,482,742	B1	Chou	11/19/2002	
	C23	2003/0080471	A1	Chou	5/1/2003	
	C24	2004/0036201	A1	Chou et al.	2/26/2004	
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	C26	6,828,244	B2	Chou	12/7/2004	
	C27	6,809,356	B2	Chou	10/26/2004	
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	C29	2004/0156108	A1	Chou et al.	8/12/2004	
	C30	2004/0137734	A1	Chou et al.	7/15/2004	
-	C31	2004/0131718	A1	Chou et al.	7/8/2004	
	C32	2004/0118809	A1	Chou et al.	6/24/2004	
	C33	2004/0046288	A1	Chou	3/11/2004	
	C34	2003/0080472	A1	Chou	5/1/2003	
	C35	2003/0034329	A1	Chou	2/20/2003	
	C38	2002/0042027	A1	Chou et al.	4/11/2002	

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Draminer	Cite	Cite U.S. Patent Document		Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant
Initals"	No.1	Number	(if known)	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
	<del></del>		1	l on the last	10/16/2003	
	C37	10/687,562		Cherala et al.	10/16/2003	
	C38	6,580,172	.B2	Mancini et al.	6/17/2003	
	Ç39	10/923,629		Sreenivasan et al.	8/20/2004	
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	C43	5,028,366		Harakal et al.	7/2/1991	
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	C48	5,849,222		Jen et al.	12/15/1998	
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ² Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁴ Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 123 and 37 CFR 1.14. This collection is estimated to take 2 (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 (and by the USPTO to process). Send to the USPTO to process and the U

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				FOREIGN	PATENT DOCUMENTS			
Examiner initials*	Cile No.1	Office 3	Foreign Patent Doc.	rment Kins Code <sup>5</sup> (# known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	7*
	C47	JP	02-92603		Kurikawa et al.	4/3/1990		
	C48	JP	02-24848		Kamio	1/26/1990	·	
	C49	wo	01/47003		Steiner et al.	6/28/2001		T
	C50	wo	02/07199		Chou	1/24/2002		
	C51	wo	2004/114016		Chou et al.	12/29/2004		
	C52	wo	99/05724		Chou et al.	2/4/1999		
	C53	wo	03/010289		Chou et al.	2/6/2003		L
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document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO standard \$7.10 in possible. \*Application is acheck mark here if English language Translation is attached.

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Substitute for form 1449A/PTO				Complete if Known		
INFO	RMATION	DISCLO	SURE	APPLICATION NUMBER	10/776,881	
STAT	EMENT B'	Y APPLI	CANT	FILING DATE	02/11/2004	
				FIRST NAMED INVENTOR	Willson et al.	
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Sheet 5 of 7			. 7	Examiner Name	Unassigned	
	1		_1	Attorney Docket Number	PA84-26D27	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Tz		

CS	Chou, Nanoimprint Lithography and Lithographically Induced Self-Assembly, MRS Bulletin, pp. 512 - 517, 7/1/2001
C5	Choi et al., Design of Orientation Stages for Step and Flash Imprint Lithography, Precision Engineering, pp. 192 - 199, 1/1/2001
C5	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000
C.S	Chou et al., Imprint Lithography with 25-Nanometer Resolution, Science Vol. 272, pp. 85 - 87, 4/5/1996
C6	Chou et al., Imprint Lithography with Sub-10 nm Feature Size and High Throughput, Microelectronic Engineering 35, pp. 237 - 240, 1/1/1997
C6	Haisma et al., Mold-assisted Nanolithography: A Process for Reliable Pattern Replication, J. Vac. Sci. Technol. B, pp 4124 - 4128, 11/1/1996
Cs	Chou et al., Imprint of Sub-25 nm Vias and Trenches in Polymers, Appl. Phys. Lett. 67 (21), 11/20/1995
Cs	Johnson et al., Advances in Step and Flash Imprint Lithography, SPIE Microlithography Conference, 2/23/2003
C8	Chou et al., Lithographically Induced Self-assembly of Periodic Polymer Micropillar Arrays, J. Vac. Sci. Technol. B 17 (6), pp. 3197 - 3202, 11/1/1999

Examiner Signature	Date Considered	

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

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INFO	RMATION	DISCLO	SURE	APPLICATION NUMBER	10/776,881
STAT	<b>TEMENT B</b>	Y APPL	ICANT	FILING DATE	02/11/2004
				FIRST NAMED INVENTOR	Willson et al.
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Sheet 6 of 7			7	Examiner Name	Unassigned
	<u> </u>			Attorney Docket Number	PA84-26D27

OTHER PRI	OR ART -	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite, No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the ltem (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ°
	•		
		Colburn et al. Step and Flash Imprint Lithography: A New Approach to High-Resolution	$\neg$
	C85	Colburn et al., Step and Flash Imprint Lithography: A New Approach to High-Resolution Patterning, Proc. Of SPIE, vol. 3676, 3/1/1999	

C85	Patterning, Proc. Of SPIE, vol. 3676, 3/1/1999
Cee	Heidari, Nanoimprint Lithography at the 6 in. Wafer Scale, J. Vac. Sci. Technol. B 18(6), pp. 3557 - 3560, 11/1/2000
C67	Translation of Japanese Patent 02-92603
C68	Translation of Japanese Patent 02-24848
C69	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Col. 417, (June 2002), pp. 835-837, 6/1/2002
C70	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technology B 14(16), pp. 4129-4133, 11/1/1996
Ç71	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001
C72	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001
C73	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001

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INFO	RMATION	DISCLO	SURE	APPLICATION NUMBER	10/776,881		
STA	TEMENT B	Y APPL	ICANT	FILING DATE	02/11/2004		
				FIRST NAMED INVENTOR	Willson et al.		
(US	e as many sheets	as necessar	<b>Y</b> )	Group Art Unit	1762		
Sheet 7 of 7				Examiner Name	Unassigned		
		I		Attorney Docket Number	PA84-26D27		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>				
	C74	Balley et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000					
	C75	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers					
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Examiner	Date
Signature	Considered

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